

What is claimed is,

1. A motor having a rotational member supported rotatably through a bearing device provided on a base member of the motor, said bearing device comprising upper and lower ball bearings each of which includes an inner ring fit around a shaft of the motor, an outer ring, and a plurality of balls interposed therebetween, said bearing device further comprising;

a spacer interposed between the outer rings of the upper and lower ball bearings wherein the spacer is made of material larger in its coefficient of linear expansion than that of the upper and lower outer rings.

2. A motor having a rotational member supported rotatably through a bearing device provided on a base member thereof, said bearing device comprising;

a stepped shaft including a larger diameter shaft portion around which an inner ring raceway is formed directly thereon and a reduced diameter shaft portion,

a ball bearing including an inner ring fit slidably around the reduced diameter shaft portion, and an outer ring,

an outer ring surrounding the inner ring raceway provided around the larger diameter shaft portion,

a plurality of balls interposed between the inner ring raceway and the outer ring raceway formed on the inner peripheral surface of the outer ring, and

10052476-030002

a spacer interposed between the outer ring of the ball bearing and the outer ring provided around the larger diameter shaft portion; wherein the spacer is made of material larger in its coefficient of linear expansion than that of the outer rings.

3. The motor according to claim 1, characterized in that low expansion rings made of material lower in its coefficient of linear expansion than that of the outer rings are press fit around the outer periphery of each outer ring of the bearing device respectively.

4. The motor according to claim 2, characterized in that low expansion rings made of material lower its coefficient of linear expansion than that of the outer rings are press fit around the outer periphery of each outer ring of the bearing device respectively.

5. The motor according to claim 3, characterized in that the low expansion rings of the bearing device are made of ceramic material.

6. The motor according to claim 4, characterized in that the low expansion rings of the bearing device are made of ceramic material.

7. The motor according to claim 1, characterized in that the balls of the bearing device are made of ceramic material.

8. The motor according to claim 2, characterized in that the balls of the bearing device are made of ceramic material.